



Your Brain on Drugs Activity Guide

Mission 3: Synaptic Sparks, Objective 5

Name:

The activity for this objective is to run a simulation with five scenarios that demonstrate the effects of drug use on brain activity, mood, memory, and energy. Record your observations for each simulation. Then match the simulation with its title. Students can work individually or with a partner for this activity.

1. The program imports a file that has been loaded into your file system. You must open and run the file to load it onto the CodeX.
> DO THIS: Go to **File** → **Browse Files...** and open the **scenarios.py** file. Run the file.

- File opened
- Run the file to load it on CodeX

2. Start a new file and call it **drug_sim**

- File created

3. Copy and paste the code from CodeSpace into the file.

- Code copied and pasted

4. Follow CodeTrek to:

- In each button press, call a function.

- CodeTrek followed

5. Open the **Console** by clicking the “Open Console” icon (The console icon is just below the Toolbox icon.)



- Console Panel opened

6. Run the code.

- Instructions will print to the Console.
- Press a button to run a scenario.
 - Use buttons: U, D, L, R and A.
 - You can run the scenarios in any order.
 - You can run the scenarios more than once.
- Text results of each scenario will print to the Console.
- Visual results of the scenario will display on the CodeX.

- Run each of the five scenarios at least once

7. Record your observations for each scenario.

- Include information that you read from the Console.
- Include visual observations displayed on the CodeX.
- Stop the program by pressing BTN_B

- Written observations for each scenario

BTN_U Scenario #1 Observations:

BTN_D Scenario #2 Observations:



BTN_L Scenario #3 Observations:

Note: You will have to press the button more than once during the simulation.

BTN_R Scenario #4 Observations:

BTN_A Scenario #5 Observations:

Note: You will have to press the button more than once during the simulation.

7. Match the scenario number with the scenario title.

| Scenario # | Scenario Title |
|------------|-----------------------|
| | Fogged Mind |
| | Paranoia Loop |
| | Euphoria and Crash |
| | Stress and Withdrawal |
| | Memory Fade |

8. Write a reflection of this activity. What are your thoughts?